Exhibit 1.1
Incident Statistics by Mode and Reporting Year

Mode	1990	1991	1992	1993	1994	1995	1996	1997	Total
Incidents by Mode									
Air	297	299	420	622	929	812	912	1,003	5,294
Highway	7,297	7,644	7,754	11,080	13,993	12,766	11,911	11,750	84,195
Railway	1,279	1,155	1,129	1,120	1,157	1,153	1,108	1,096	9,197
Water	7	12	8	8	6	12	6	4	63
Other	0	0	0	0	0	0	0	0	0
TOTALS	8,880	9,110	9,311	12,830	16,085	14,743	13,937	13,853	98,749
Deaths by Mode									
Air	0	0	0	0	0	0	110	0	110
Highway	8	10	15	15	11	7	8	11	85
Railway	0	0	0	0	0	0	2	0	2
Water	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
TOTALS	8	10	15	15	11	7	120	11	197
Injuries by Mode									
Air	39	31	23	50	57	32	32	24	288
Highway	311	333	461	511	425	296	215	157	2,709
Railway	73	75	116	66	95	71	926	45	1,467
Water	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
TOTALS	423	439	600	627	577	399	1,173	226	4,464
Damages by Mode (in Dollars)									
Air	142,038	77,090	99,529	88,480	177,695	97,053	87,113	331,588	1,100,586
Highway	20,189,768	29,649,627	23,996,128	19,849,049	25,247,038	22,152,429	29,006,670	24,582,618	194,673,327
Railway	11,951,572	8,469,499	10,999,297	2,651,291	18,673,002	8,485,159	17,371,928	8,347,929	86,949,677
Water	69,898	154,395	143,115	213,091	92,003	173,511	120,146	25,145	991,304
Other	0	0	0	0	0	0	0	0	0
TOTALS	32,353,276	38,350,611	35,238,069	22,801,911	44,189,738	30,908,152	46,585,857	33,287,280	283,714,894

Exhibit 1.2
Incident Statistics by Mode and Reporting Year
Serious Incidents

Mode	1990	1991	1992	1993	1994	1995	1996	1997	Total
Incidents by Mode									
Air	7	4	9	9	15	11	13	12	80
Highway	334	323	309	283	337	329	374	340	2,629
Railway	60	74	56	65	76	68	77	65	541
Water	1	2	1	0	1	1	0	0	6
Other	0	0	0	0	0	0	0	0	0
TOTALS	402	403	375	357	429	409	464	417	3,256
Deaths by Mode									
Air	0	0	0	0	0	0	110	0	110
Highway	8	10	15	15	11	7	8	11	85
Railway	0	0	0	0	0	0	2	0	2
Water	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
TOTALS	8	10	15	15	11	7	120	11	197
Injuries by Mode									
Air	11	5	7	7	33	22	21	4	110
Highway	116	107	186	242	188	88	85	68	1,080
Railway	39	29	78	11	45	20	892	6	1,120
Water	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
TOTALS	166	141	271	260	266	130	998	78	2,310
Damages by Mode (in Dollars)									
Air	4,785	26,270	1,400	23,175	69,871	6,041	11,410	6,209	149,161
Highway	15,043,595	25,774,210	19,476,428	13,169,100	14,446,521	16,732,987	23,594,402	18,232,444	146,469,687
Railway	10,893,331	6,280,277	9,501,261	1,935,467	12,385,233	7,492,260	16,619,721	7,399,115	72,506,665
Water	7,412	30	125,000	0	0	71,141	0	0	203,583
Other	0	0	0	0	0	0	0	0	0
TOTALS	25,949,123	32,080,787	29,104,089	15,127,742	26,901,625	24,302,429	40,225,533	25,637,768	219,329,096

Note: Serious incidents are defined as those which involve a fatality, major injury, closure of a major transportation artery or facility, evacuation of six or more persons, or a vehicle accident or derailment.

Exhibit 1.3
Incident Statistics by Mode and Reporting Year
Accident / Derailment Incidents

Mode	1990	1991	1992	1993	1994	1995	1996	1997	Total
Incidents by Mode									
Air	0	0	1	0	0	0	0	1	2
Highway	249	249	247	216	246	245	287	253	1,992
Railway	48	54	36	48	52	50	43	52	383
Water	0	0	1	0	0	0	0	0	1
Other	0	0	0	0	0	0	0	0	0
TOTALS	297	303	285	264	298	295	330	306	2,378
Deaths by Mode									
Air	0	0	0	0	0	0	0	0	0
Highway	7	10	15	14	11	6	5	9	77
Railway	0	0	0	0	0	0	2	0	2
Water	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
TOTALS	7	10	15	14	11	6	7	9	79
Injuries by Mode									
Air	0	0	0	0	0	0	0	0	0
Highway	9	27	34	61	95	14	22	11	273
Railway	9	13	64	1	16	4	842	5	954
Water	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
TOTALS	18	40	98	62	111	18	864	16	1,227
Damages by Mode (in Dollars)									
Air	0	0	0	0	0	0	0	0	0
Highway	14,131,962	23,952,503	18,217,299	11,200,448	13,528,150	16,256,116	22,044,176	17,241,084	136,571,738
Railway	10,659,969	6,231,038	9,378,024	1,916,070	12,013,577	7,260,124	15,460,065	7,338,960	70,257,827
Water	0	0	125,000	0	0	0	0	0	125,000
Other	0	0	0	0	0	0	0	0	0
TOTALS	24,791,931	30,183,541	27,720,323	13,116,518	25,541,727	23,516,240	37,504,241	24,580,044	206,954,565

Exhibit 1.4
Incident Statistics by Mode and Reporting Year
Hazardous Waste Incidents

Mode	1990	1991	1992	1993	1994	1995	1996	1997	Total
Incidents by Mode									
Air	0	0	1	1	1	0	0	2	5
Highway	168	175	377	549	519	652	423	374	3,237
Railway	26	27	33	23	27	24	34	38	232
Water	0	0	0	1	0	0	0	0	1
Other	0	0	0	0	0	0	0	0	0
TOTALS	194	202	411	574	547	676	457	414	3,475
Deaths by Mode									
Air	0	0	0	0	0	0	0	0	0
Highway	0	0	0	0	0	0	1	0	1
Railway	0	0	0	0	0	0	0	0	0
Water	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	0	0	1	0	1
Injuries by Mode									
Air	0	0	0	0	0	0	0	0	0
Highway	4	25	50	5	4	23	10	9	130
Railway	4	5	1	0	1	1	3	1	16
Water	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
TOTALS	8	30	51	5	5	24	13	10	146
Damages by Mode (in Dollars)									
Air	0	0	0	1	0	0	0	75	76
Highway	1,342,868	1,132,749	1,132,085	832,944	1,153,436	1,612,542	1,832,748	4,015,176	13,054,548
Railway	4,516	633,549	67,487	63,789	1,296,204	466,580	43,960	35,520	2,611,605
Water	0	0	0	17,630	0	0	0	0	17,630
Other	0	0	0	0	0	0	0	0	0
TOTALS	1,347,384	1,766,298	1,199,572	914,364	2,449,640	2,079,122	1,876,708	4,050,771	15,683,859

Exhibit 2.1

Hazardous Materials Incidents, 1990 - 1997

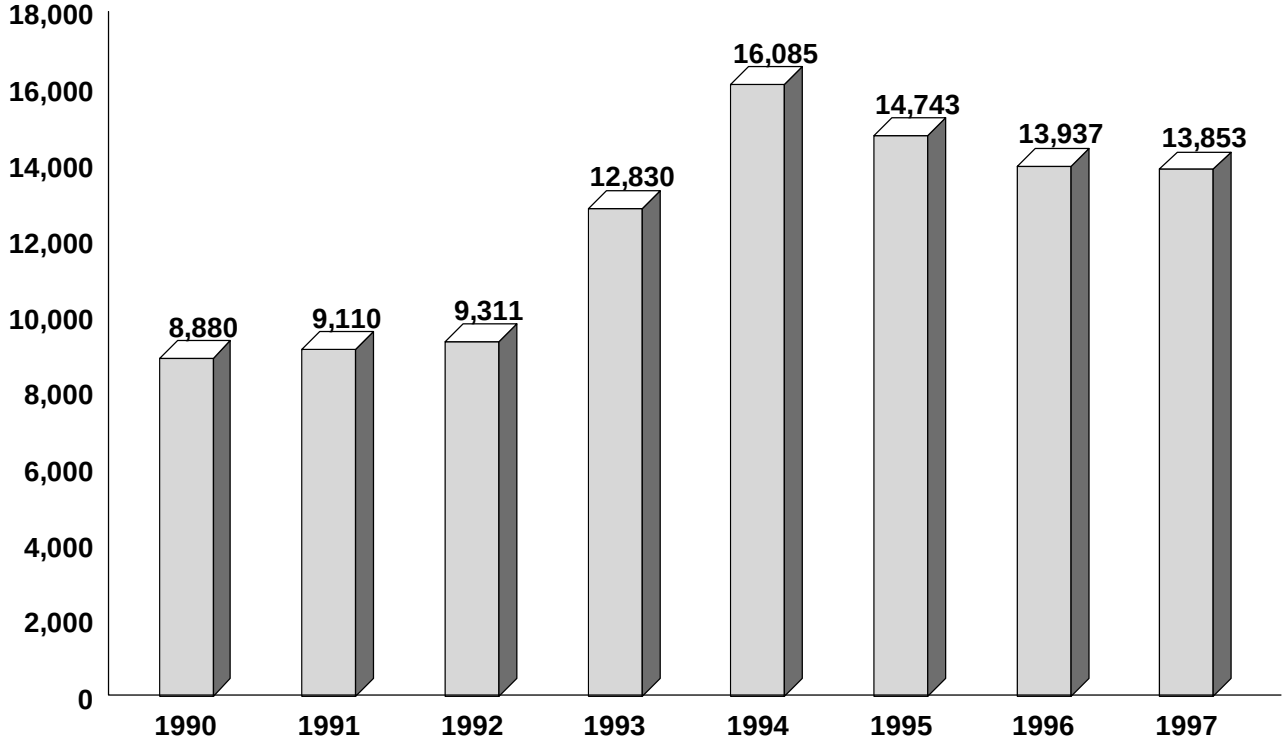


Exhibit 2.2

Fatalities due to Hazardous Materials, 1990 - 1997

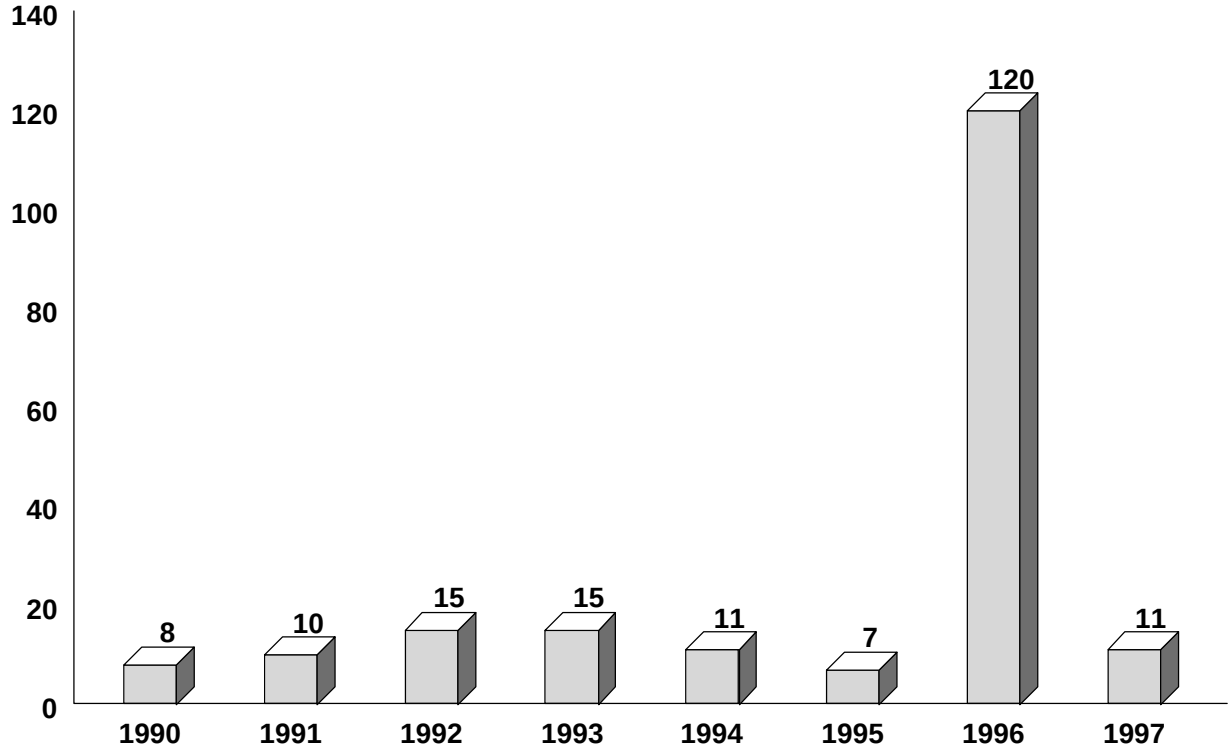


Exhibit 2.3
Hazardous Material Incidents, 1990 - 1997
Highway by Bulk and Non-Bulk

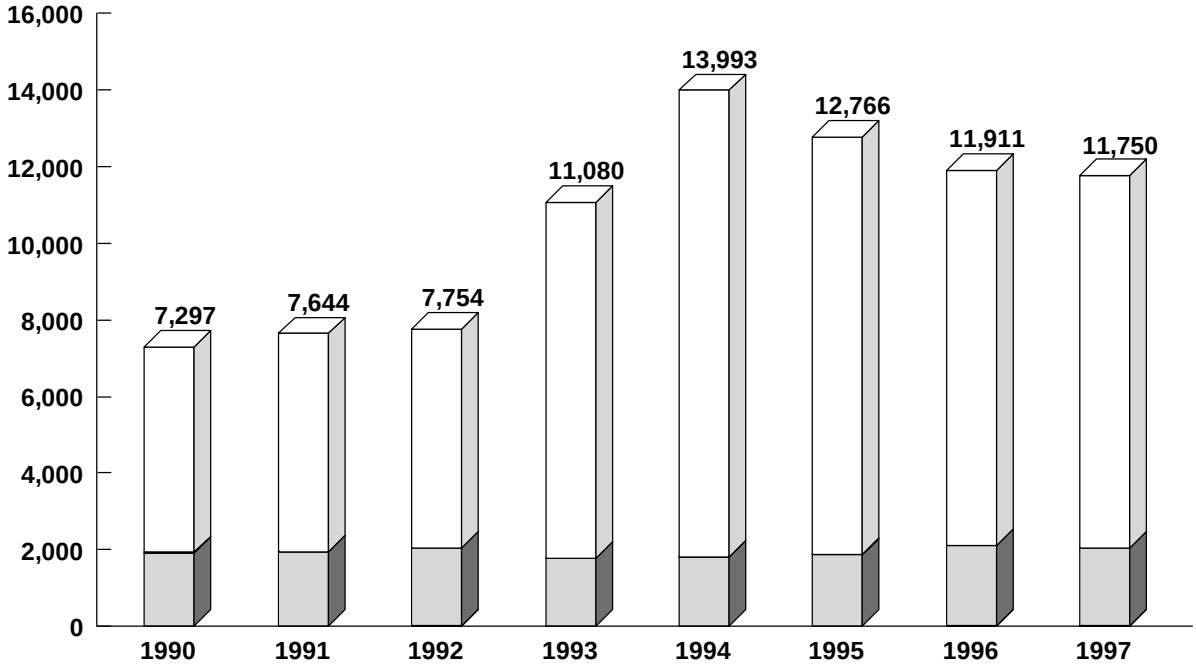
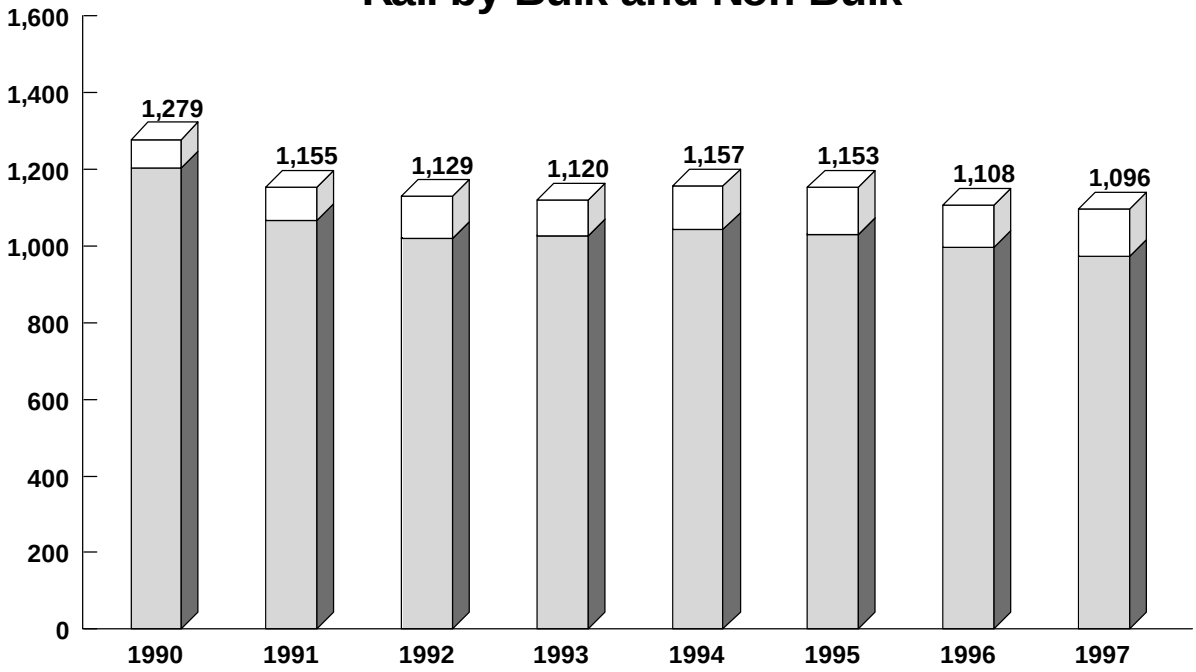


Exhibit 2.4
Hazardous Material Incidents, 1990 - 1997
Rail by Bulk and Non-Bulk



Note: Bulk packages are defined as those with a maximum capacity greater than 450 L (119 gallons).

Exhibit 2.5
Hazardous Material Incidents, 1990 - 1997
Air

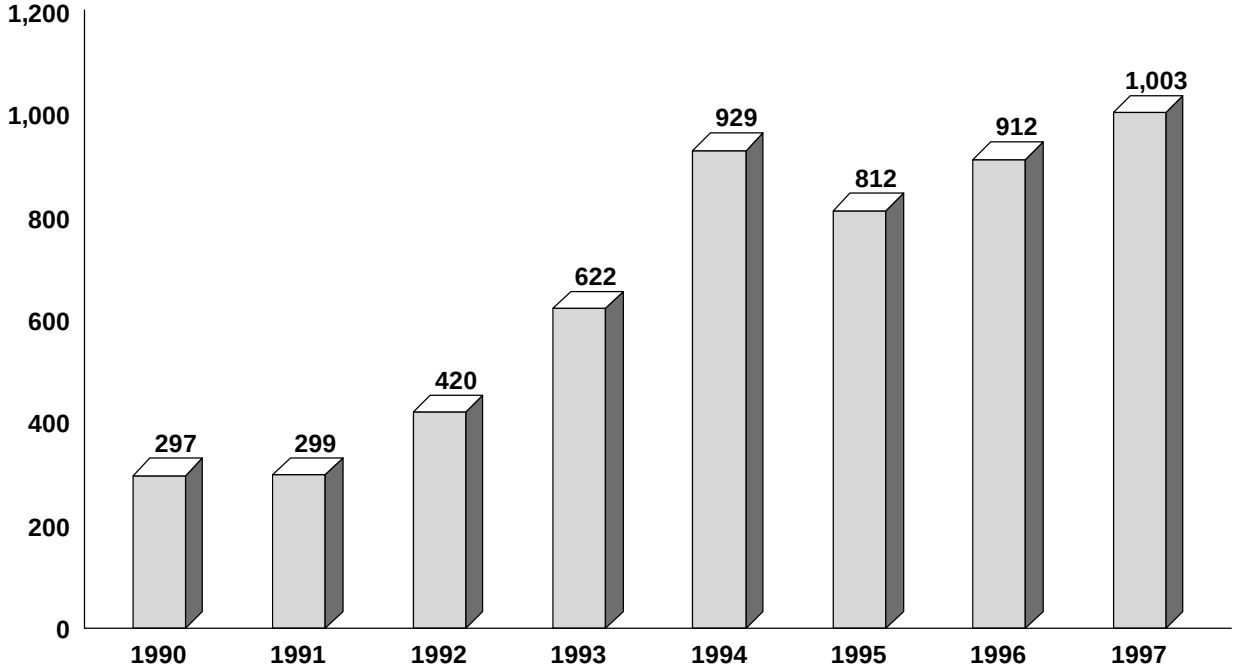


Exhibit 2.6
Hazardous Material Incidents, 1990 - 1997
Water

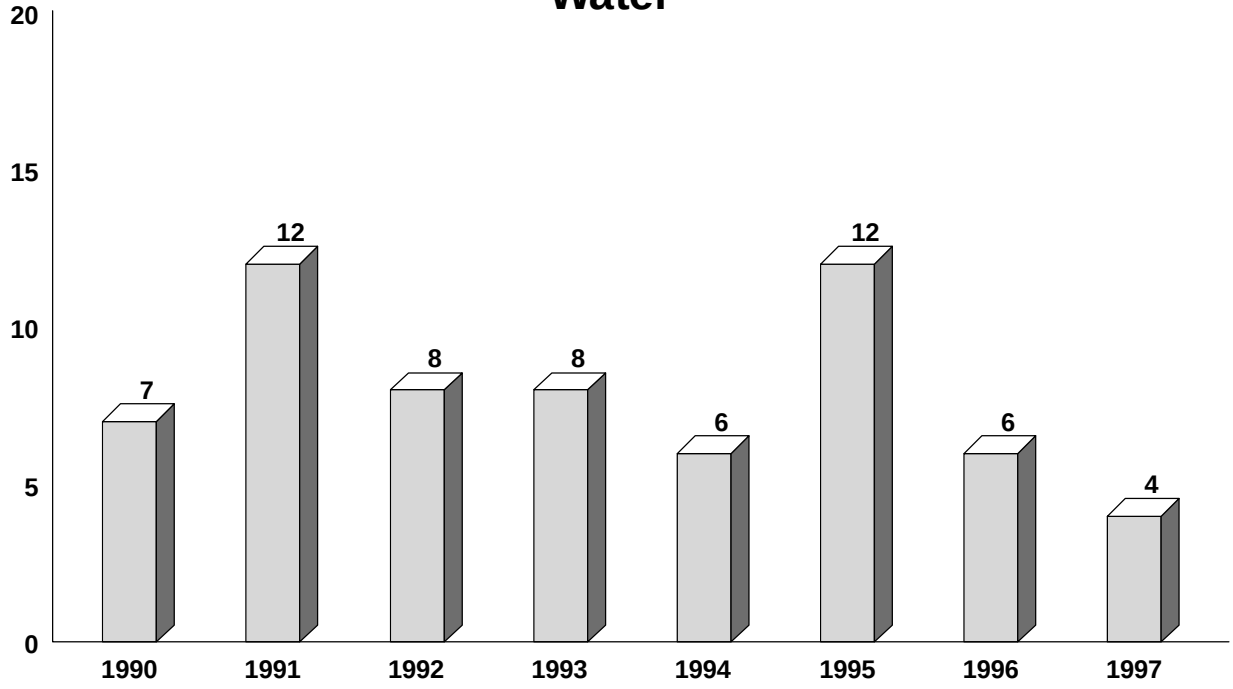


Exhibit 3.1

Hazardous Materials Incidents, 1983-1997

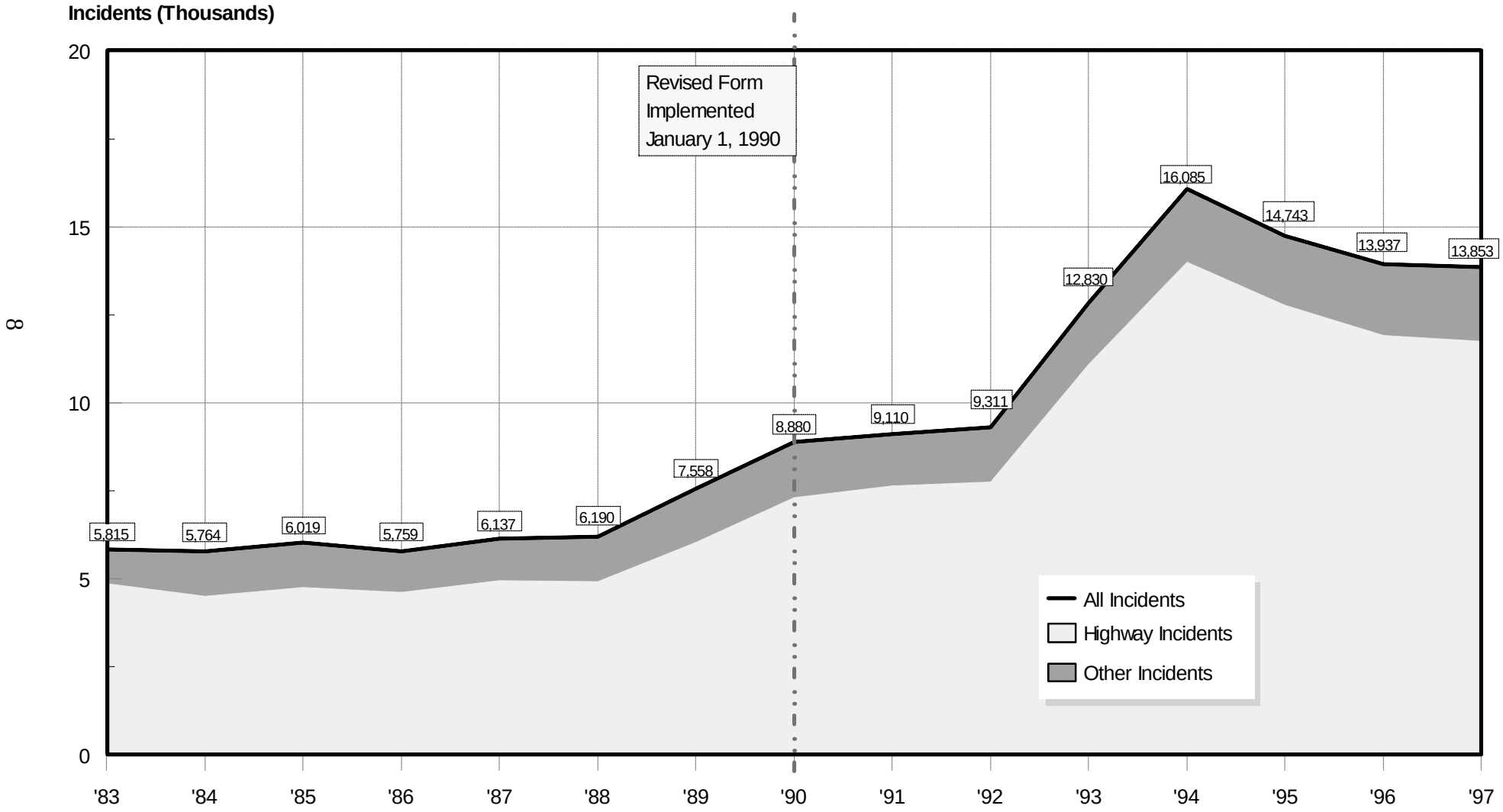
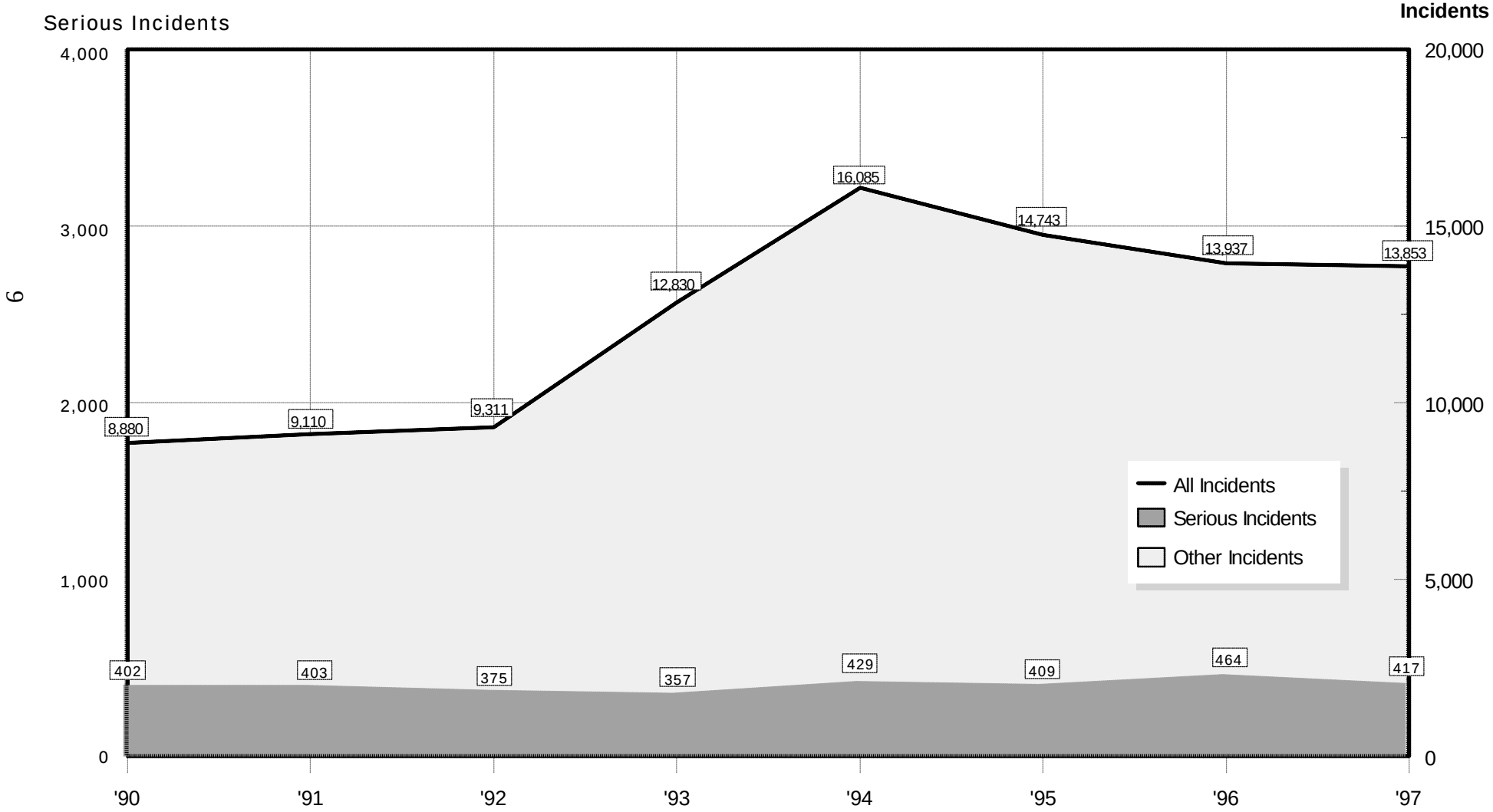


Exhibit 3.2

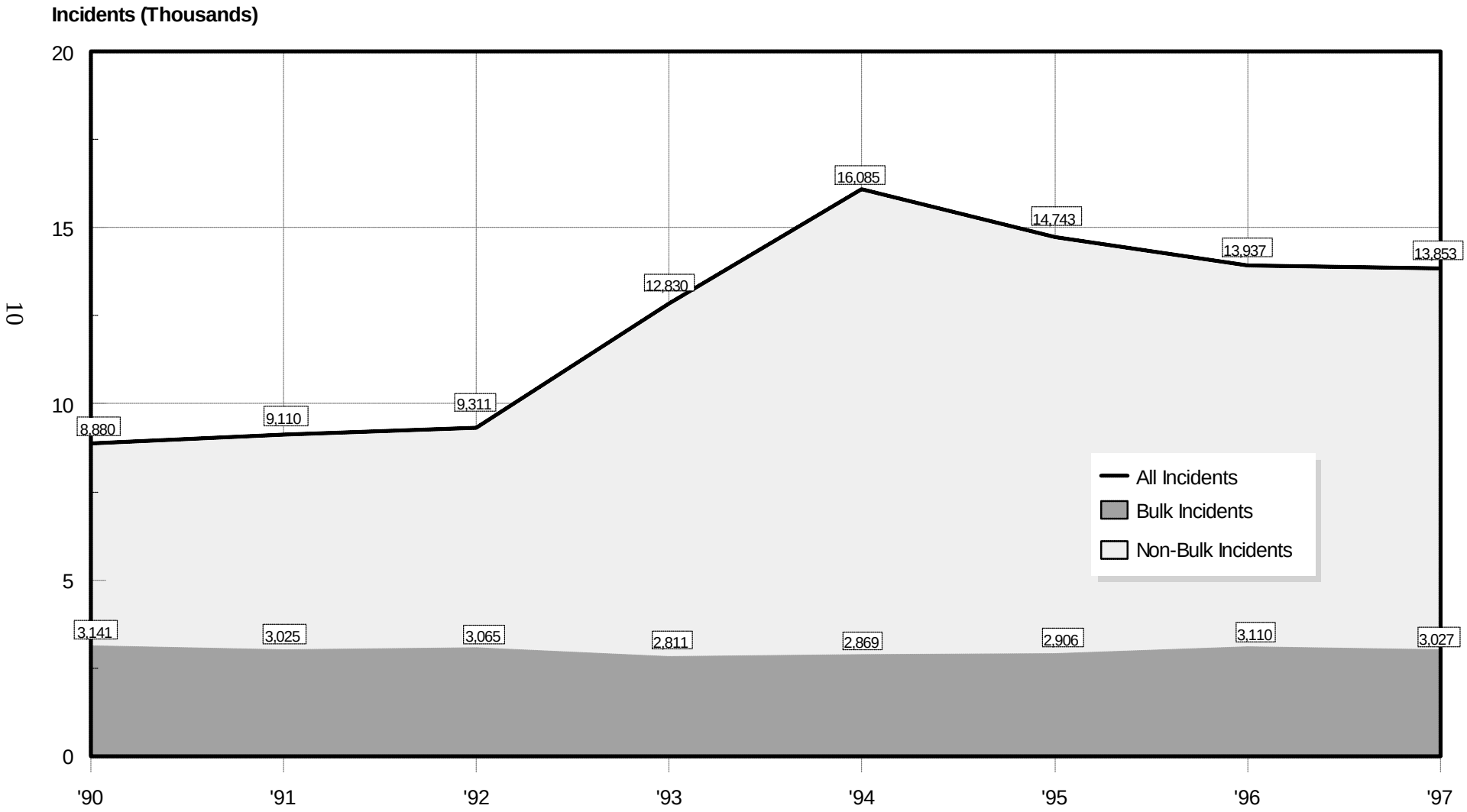
Hazardous Materials Incidents, 1990-1997
Serious Incidents



Note: Serious incidents are defined as those which involve a fatality, major injury, closure of a major transportation artery or facility, evacuation of six or more persons, or a vehicle accident or derailment.

Exhibit 3.3

Hazardous Materials Incidents, 1990-1997
Bulk and Non-Bulk Incidents



Note: Bulk packages are defined as those with a maximum capacity greater than 450 L (119 gallons).

Exhibit 4.1.1
Incidents and Damages by Hazard Class - 1996

Hazard Class **	Number of Reported Incidents	Percent of Reported Incidents *	Rank by Incidents	Number of Incidents Involving Damages	Amount of Damages ($)	Percent of Total Damages *	Rank by $ Damages
Flammable - Combustible Liquid	5,826	41.5	1	4,133	20,128,406	43.3	1
Corrosive Material	5,201	37.1	2	3,656	9,470,303	20.4	2
Poisonous Materials	1,063	7.6	3	750	1,544,898	3.3	7
Miscellaneous Hazardous Material	497	3.5	4	279	1,829,391	3.9	6
Combustible Liquid	371	2.6	5	240	3,234,872	7.0	4
Oxidizer	269	1.9	6	195	1,292,168	2.8	8
Nonflammable Compressed Gas	233	1.7	7	143	1,119,666	2.4	9
Flammable Gas	202	1.4	8	144	2,558,273	5.5	5
Organic Peroxide	103	0.7	9	76	36,765	0.1	13
Flammable Solid	81	0.6	10	60	70,745	0.2	12
Other Regulated Material,Class D	57	0.4	11	42	3,852	<.1	16
Poisonous Gas	51	0.4	12	26	4,816,212	10.4	3
Dangerous When Wet Material	24	0.2	13	17	115,366	0.2	11
Spontaneously Combustible	21	0.1	14	18	35,380	0.1	14
Radioactive Material	17	0.1	15	2	1,550	<.1	17
Explosive No Blast Hazard	4	<.1	16	1	350	<.1	18
Very Insensitive Explosive	4	<.1	17	3	24,941	0.1	15
Infectious Substance (Etiologic)	3	<.1	18	0	0	0.0	19
Explosive Mass Explosion Hazard	2	<.1	19	1	200,000	0.4	10
Explosive Fire Hazard	1	<.1	20	0	0	0.0	19
TOTALS		**100.0**			**$46,483,138**	**100.0**	

Note: Since some incidents involve multiple hazard classes, double counting occurs in the "Number of Reported Incidents" and "Number of Incidents Involving Damages" columns. Therefore, no totals are shown for these columns.

The "Percent of Reported Incidents" is based on the sum of the "Reported Number of Incidents" column.

* All percent figures are rounded to the nearest tenth.

** No reports were received for other hazard classes.

Exhibit 4.1.2
Incidents and Damages by Hazard Class - 1997

Hazard Class **	Number of Reported Incidents	Percent of Reported Incidents *	Rank by Incidents	Number of Incidents Involving Damages	Amount of Damages ($)	Percent of Total Damages *	Rank by $ Damages
Flammable - Combustible Liquid	5,614	40.3	1	3,877	14,276,074	42.9	1
Corrosive Material	5,304	38.1	2	3,690	6,939,052	20.8	2
Poisonous Materials	985	7.1	3	658	1,084,489	3.3	7
Miscellaneous Hazardous Material	480	3.4	4	297	3,056,357	9.2	3
Oxidizer	409	2.9	5	319	1,295,320	3.9	6
Combustible Liquid	323	2.3	6	229	799,974	2.4	9
Nonflammable Compressed Gas	275	2.0	7	168	2,423,649	7.3	4
Flammable Gas	196	1.4	8	122	1,447,587	4.3	5
Organic Peroxide	100	0.7	9	76	89,954	0.3	15
Flammable Solid	94	0.7	10	70	168,057	0.5	12
Other Regulated Material,Class D	41	0.3	11	27	13,310	<.1	18
Poisonous Gas	39	0.3	12	20	121,601	0.4	13
Dangerous When Wet Material	19	0.1	13	10	268,001	0.8	11
Radioactive Material	18	0.1	14	4	99,853	0.3	14
Spontaneously Combustible	16	0.1	15	13	854,510	2.6	8
Infectious Substance (Etiologic)	8	0.1	16	0	0	0.0	19
Very Insensitive Explosive	4	<.1	17	2	55,840	0.2	16
Explosive Mass Explosion Hazard	3	<.1	18	1	14,866	<.1	17
Explosive No Blast Hazard	3	<.1	19	0	0	0.0	19
Explosive Projection Hazard	2	<.1	20	1	278,786	0.8	10
Explosive Fire Hazard	1	<.1	21	0	0	0.0	19
TOTALS		**100.0**			**$33,287,280**	**100.0**	

Note: Since some incidents involve multiple hazard classes, double counting occurs in the "Number of Reported Incidents" and "Number of Incidents Involving Damages" columns. Therefore, no totals are shown for these columns.

The "Percent of Reported Incidents" is based on the sum of the "Reported Number of Incidents" column.

* All percent figures are rounded to the nearest tenth.

** No reports were received for other hazard classes.

Exhibit 4.1.3
Incidents by Hazard Class - 1996

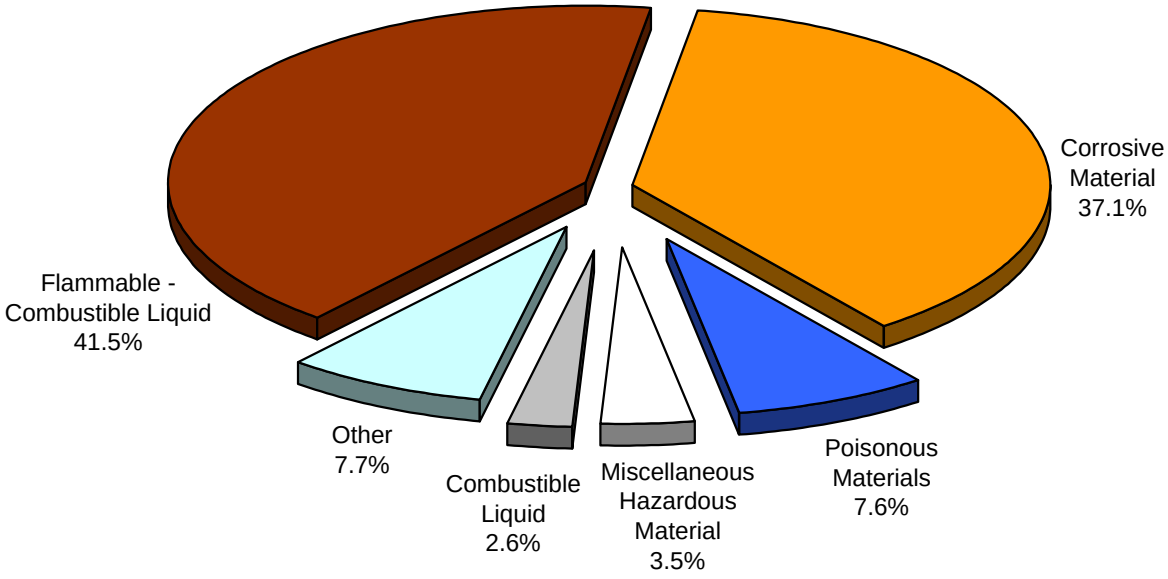


Exhibit 4.1.4
Incidents by Hazard Class - 1997

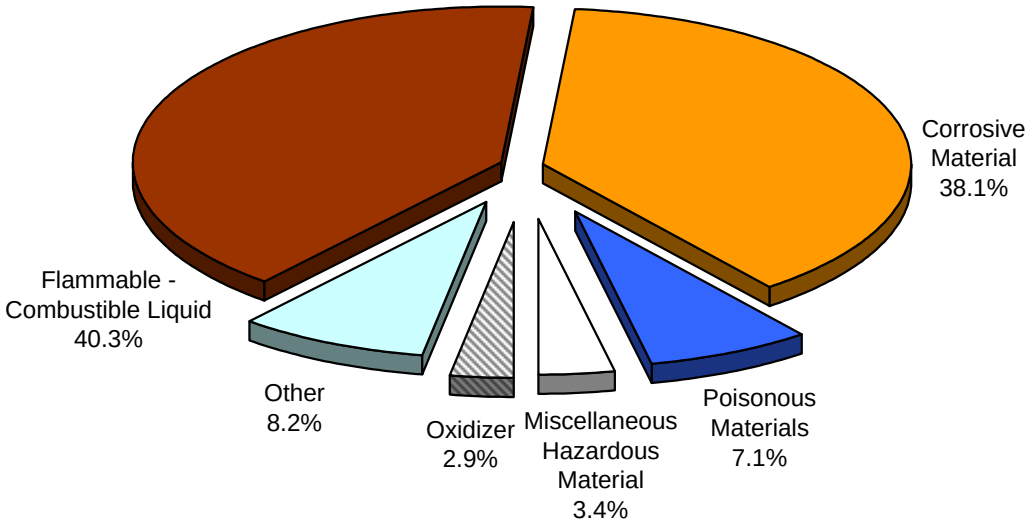


Exhibit 4.2.1

Hazardous Materials Incidents - 1996
Injuries by Hazard Class

Hazard Class *	Number of Injuries	Percent of Injuries	Major Injuries **	Minor Injuries	Number of Incidents with Injuries		
					Major	Minor	Total ***
Poisonous Gas	797	67.9	5	792	1	5	5
Corrosive Material	131	11.2	14	117	14	85	96
Flammable - Combustible Liquid	67	5.7	15	52	14	38	51
Combustible Liquid	55	4.7	2	53	1	4	4
Poisonous Materials	41	3.5	0	41	0	17	17
Nonflammable Compressed Gas	39	3.3	3	36	2	7	8
Miscellaneous Hazardous Material	20	1.7	2	18	2	8	10
Flammable Gas	11	0.9	5	6	4	4	7
Oxidizer	6	0.5	0	6	0	4	4
Flammable Solid	4	0.3	0	4	0	2	2
Other Regulated Material, Class D	1	0.1	0	1	0	1	1
Very Insensitive Explosive	1	0.1	1	0	1	0	1
TOTALS	**1,173**	**100.0**	**47**	**1,126**	**39**	**175**	**206**

Note: All percent figures are rounded to nearest tenth.

* No reports received for other hazard classes.

** Major injuries are those requiring hospitalization or resulting in loss of time at work.

*** Since some incidents involve both major and minor incidents, the "Number of Incidents with Injuries - Total" column may not equal the sum of the two preceding columns.

Exhibit 4.2.2

Hazardous Materials Incidents - 1997
Injuries by Hazard Class

Hazard Class *	Number of Injuries	Percent of Injuries	Major Injuries **	Minor Injuries	Number of Incidents with Injuries		
					Major	Minor	Total ***
Corrosive Material	120	53.1	32	88	11	69	78
Flammable - Combustible Liquid	35	15.5	3	32	3	22	24
Poisonous Materials	25	11.1	1	24	1	9	10
Miscellaneous Hazardous Material	12	5.3	1	11	1	7	8
Flammable Gas	9	4.0	6	3	3	3	5
Nonflammable Compressed Gas	6	2.7	0	6	0	5	5
Poisonous Gas	6	2.7	0	6	0	4	4
Oxidizer	5	2.2	0	5	0	4	4
Organic Peroxide	4	1.8	0	4	0	2	2
Combustible Liquid	3	1.3	0	3	0	1	1
Radioactive Material	1	0.4	0	1	0	1	1
TOTALS	**226**	**100.0**	**43**	**183**	**19**	**127**	**142**

Note: All percent figures are rounded to nearest tenth.

* No reports received for other hazard classes.

** Major injuries are those requiring hospitalization or resulting in loss of time at work.

*** Since some incidents involve both major and minor incidents, the "Number of Incidents with Injuries - Total" column may not equal the sum of the two preceding columns.

Exhibit 4.3

Hazardous Materials Incidents, 1990-1997
Fatalities by Hazard Class / Hazardous Material

Hazard Class / Hazardous Material	1990	1991	1992	1993	1994	1995	1996	1997	Total
	Number of Fatalities								
Combustible Liquid	**3**	**2**	**0**	**0**	**0**	**0**	**2**	**0**	**7**
Combustible Liquid n.o.s.	3	...	...	...	...	...	...	...	3
Fuel Oil No. 1,2,4,5,6	...	2	...	...	...	...	1	...	3
Petroleum Distillate	...	...	...	...	...	...	1	...	1
Flammable Gas	**0**	**0**	**3**	**0**	**1**	**2**	**0**	**3**	**9**
Acetylene Dissolved	...	...	...	...	1	...	...	...	1
Petroleum Gases Liquefied	...	...	3	...	...	2	...	3	8
Poisonous Gas	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**2**
Ammonia Anhydrous	...	...	...	...	...	...	1	...	1
Chlorine	...	...	...	...	...	...	1	...	1
Flammable - Combustible Liquid	**5**	**8**	**12**	**15**	**9**	**5**	**6**	**8**	**68**
Alcohols n.o.s.	...	...	...	...	...	...	...	1	1
Asphalt	...	...	...	1	...	...	...	...	1
Denatured Alcohol	...	...	...	1	...	...	...	...	1
Flammable Liquids n.o.s.	...	...	...	...	...	...	1	1	2
Fuel Aviation Turbine	...	...	1	1	...	...	...	...	2
Gasoline	4	8	10	12	9	4	4	6	57
Hydrocarbons Liquid n.o.s.	...	...	...	...	...	...	1	...	1
Paint	1	...	...	...	...	...	...	...	1
Paint Related Material	...	...	...	...	...	1	...	...	1
Petroleum Crude Oil	...	...	1	...	...	...	...	...	1
Oxidizer	**0**	**0**	**0**	**0**	**0**	**0**	**110**	**0**	**110**
Oxidizing Solid n.o.s.	...	...	...	...	...	...	110	...	110
Miscellaneous Hazardous	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**
Elevated Temp Material Liquid	...	...	...	...	1	...	...	...	1
Total	**8**	**10**	**15**	**15**	**11**	**7**	**120**	**11**	**197**

Exhibit 4.1.1
Incidents and Damages by Hazard Class - 1996

Hazard Class **	Number of Reported Incidents	Percent of Reported Incidents *	Rank by Incidents	Number of Incidents Involving Damages	Amount of Damages ($)	Percent of Total Damages *	Rank by $ Damages
Flammable - Combustible Liquid	5,826	41.5	1	4,133	20,128,406	43.3	1
Corrosive Material	5,201	37.1	2	3,656	9,470,303	20.4	2
Poisonous Materials	1,063	7.6	3	750	1,544,898	3.3	7
Miscellaneous Hazardous Material	497	3.5	4	279	1,829,391	3.9	6
Combustible Liquid	371	2.6	5	240	3,234,872	7.0	4
Oxidizer	269	1.9	6	195	1,292,168	2.8	8
Nonflammable Compressed Gas	233	1.7	7	143	1,119,666	2.4	9
Flammable Gas	202	1.4	8	144	2,558,273	5.5	5
Organic Peroxide	103	0.7	9	76	36,765	0.1	13
Flammable Solid	81	0.6	10	60	70,745	0.2	12
Other Regulated Material,Class D	57	0.4	11	42	3,852	<.1	16
Poisonous Gas	51	0.4	12	26	4,816,212	10.4	3
Dangerous When Wet Material	24	0.2	13	17	115,366	0.2	11
Spontaneously Combustible	21	0.1	14	18	35,380	0.1	14
Radioactive Material	17	0.1	15	2	1,550	<.1	17
Explosive No Blast Hazard	4	<.1	16	1	350	<.1	18
Very Insensitive Explosive	4	<.1	17	3	24,941	0.1	15
Infectious Substance (Etiologic)	3	<.1	18	0	0	0.0	19
Explosive Mass Explosion Hazard	2	<.1	19	1	200,000	0.4	10
Explosive Fire Hazard	1	<.1	20	0	0	0.0	19
TOTALS		**100.0**			**$46,483,138**	**100.0**	

Note: Since some incidents involve multiple hazard classes, double counting occurs in the "Number of Reported Incidents" and "Number of Incidents Involving Damages" columns. Therefore, no totals are shown for these columns.

The "Percent of Reported Incidents" is based on the sum of the "Reported Number of Incidents" column.

* All percent figures are rounded to the nearest tenth.

** No reports were received for other hazard classes.

Exhibit 4.4.2

Incidents by Top 50 Hazardous Materials - 1997

Rank	Hazardous Material	Hazard Class	Incidents	Percent of Total Incidents	Rank	Hazardous Material	Hazard Class	Incidents	Percent of Total Incidents
1	Corrosive Liquids n.o.s.	Corrosive Material	1,055	7.6	26	Compound Cleaning Liquid	Corrosive Material	136	1.0
2	Flammable Liquids n.o.s.	Flammable - Combustible Liquid	917	6.6	27	Dichloromethane	Poisonous Materials	134	1.0
3	Resin Solution	Flammable - Combustible Liquid	515	3.7	28	Xylenes	Flammable - Combustible Liquid	132	1.0
4	Sodium Hydroxide Solution	Corrosive Material	461	3.3	29	Methanol	Flammable - Combustible Liquid	126	0.9
5	Hydrochloric Acid Solution	Corrosive Material	358	2.6	30	Extracts Flavoring Liquid	Flammable - Combustible Liquid	124	0.9
6	Adhesives	Flammable - Combustible Liquid	333	2.4	31	Ammonia Solutions 10-35%	Corrosive Material	110	0.8
7	Gasoline	Flammable - Combustible Liquid	301	2.2	32	Acetone	Flammable - Combustible Liquid	103	0.7
8	Isopropanol	Flammable - Combustible Liquid	289	2.1	32	Petroleum Crude Oil	Flammable - Combustible Liquid	103	0.7
9	Phosphoric Acid	Corrosive Material	277	2.0	34	Ammonia Anhydrous	Nonflammable Compressed Gas	97	0.7
10	Sulfuric Acid	Corrosive Material	261	1.9	35	Diesel Fuel	Flammable - Combustible Liquid	92	0.7
11	Paint or Paint Related	Flammable - Combustible Liquid	259	1.9	36	Paint Related Material	Flammable - Combustible Liquid	84	0.6
12	Corrosive Liq Acidic Inorganic	Corrosive Material	248	1.8	36	Toxic Liquid Organic n.o.s.	Poisonous Materials	84	0.6
13	Corrosive Liq Basic Inorganic	Corrosive Material	246	1.8	38	Petroleum Gases Liquefied	Flammable Gas	80	0.6
14	Petroleum Distillates n.o.s.	Flammable - Combustible Liquid	245	1.8	39	Trichloroethylene	Poisonous Materials	78	0.6
15	Potassium Hydroxide Solution	Corrosive Material	212	1.5	40	Flammable Liquid Corrosive	Flammable - Combustible Liquid	77	0.6
16	Caustic Alkali Liquid n.o.s.	Corrosive Material	209	1.5	40	Environmentally Haz Solid	Miscellaneous Hazardous Material	77	0.6
17	Fuel Oil (No. 1,2,4,5,6)	Flammable - Combustible Liquid	189	1.4	42	Alcohols n.o.s.	Flammable - Combustible Liquid	74	0.5
18	Printing Ink Flammable	Flammable - Combustible Liquid	184	1.3	42	Methyl Methacrylate Inhibited	Flammable - Combustible Liquid	74	0.5
19	Corrosive Liq Acidic Organic	Corrosive Material	182	1.3	44	Compound Cleaning Liquid	Flammable - Combustible Liquid	71	0.5
20	Hydrogen Perox-Peroxyacetic	Oxidizer	171	1.2	45	Fuel Oil No. 1,2,4,5,6	Combustible Liquid	69	0.5
21	Ethanol	Flammable - Combustible Liquid	169	1.2	46	Corrosive Liq Basic Organic	Corrosive Material	68	0.5
22	Compound Cleaning Liq Pho	Corrosive Material	156	1.1	47	Amines Liquid Corrosive n.o.s.	Corrosive Material	67	0.5
23	Hypochlorite Solution 5-16%	Corrosive Material	153	1.1	48	Fuel Oil	Combustible Liquid	66	0.5
24	Environmentally Haz Liquid	Miscellaneous Hazardous Material	143	1.0	48	Hazardous Waste Solid n.o.s.	Miscellaneous Hazardous Material	66	0.5
25	Combustible Liquid n.o.s.	Combustible Liquid	142	1.0	50	Acetic Acid Solution	Corrosive Material	61	0.4
							TOTALS	**9,928**	**71.7**

Note: Percentage figures are based on 13,853 incidents reported in 1997.

Exhibit 4.5.1

Serious Incidents by Hazardous Material - 1996

Rank	Hazardous Material	Hazard Class	Incidents	Percent of Total Incidents
1	Gasoline	Flammable - Combustible Liquid	70	0.5
2	Petroleum Gases Liquefied	Flammable Gas	25	0.2
2	Fuel Oil (No. 1,2,4,5,6)	Flammable - Combustible Liquid	25	0.2
4	Hydrochloric Acid Solution	Corrosive Material	23	0.2
5	Diesel Fuel	Flammable - Combustible Liquid	20	0.1
6	Flammable Liquids n.o.s.	Flammable - Combustible Liquid	15	0.1
7	Sodium Hydroxide Solution	Corrosive Material	13	0.1
8	Corrosive Liquids n.o.s.	Corrosive Material	12	0.1
8	Sulfuric Acid	Corrosive Material	12	0.1
10	Fuel Oil No. 1,2,4,5,6	Combustible Liquid	10	0.1
11	Environmentally Hazardous Liquid	Miscellaneous Hazardous Material	9	0.1
12	Petroleum Crude Oil	Flammable - Combustible Liquid	8	0.1
13	Ammonia Anhydrous	Nonflammable Compressed Gas	7	0.1
13	Combustible Liquid n.o.s.	Combustible Liquid	7	0.1
13	Paint or Paint Related	Flammable - Combustible Liquid	7	0.1
16	Sodium Hydroxide Solid	Corrosive Material	6	<.1
16	Styrene Monomer Inhibited	Flammable - Combustible Liquid	6	<.1
16	Environmentally Hazardous Solid	Miscellaneous Hazardous Material	6	<.1
19	Propane	Flammable Gas	5	<.1
19	Paint Related Material	Flammable - Combustible Liquid	5	<.1
19	Hazardous Waste Solid n.o.s.	Miscellaneous Hazardous Material	5	<.1
22	Ammonium Nitrate <0.2%	Oxidizer	4	<.1
22	Chlorine	Poisonous Gas	4	<.1
22	Fuel Aviation Turbine	Flammable - Combustible Liquid	4	<.1
22	Petroleum Distillates n.o.s.	Flammable - Combustible Liquid	4	<.1
22	Resin Solution	Flammable - Combustible Liquid	4	<.1
22	Corrosive Liq Acidic Inorganic	Corrosive Material	4	<.1
22	Elevated Temp Material Liquid	Miscellaneous Hazardous Material	4	<.1
29	Acetylene Dissolved	Flammable Gas	3	<.1
29	Fuel Oil	Combustible Liquid	3	<.1
29	Oxygen Refrigerated Liquid	Nonflammable Compressed Gas	3	<.1
29	Petroleum Distillate	Combustible Liquid	3	<.1
29	Ammonia Anhydrous	Poisonous Gas	3	<.1
29	Gas Oil	Flammable - Combustible Liquid	3	<.1
29	Denatured Alcohol	Flammable - Combustible Liquid	3	<.1
36	*34 materials tied for this rank*	….	2 each	….
70	*92 materials tied for this rank*	….	1 each	….
			TOTAL	**3.3**

Note: Percentage figures are based on 13,937 incidents reported in 1996.

Serious incidents are defined as those which involve a fatality, major injury, closure of a major transportation artery or facility, evacuation of six or more persons, or a vehicle accident or derailment.

Since some incidents involve multiple hazard classes, double counting occurs in the "Incidents" column. Therefore, no total is shown for this column.

Exhibit 4.5.2

Serious Incidents by Hazardous Material - 1997

Rank	Hazardous Material	Hazard Class	Incidents	Percent of Total Incidents
1	Gasoline	Flammable - Combustible Liquid	62	0.4
2	Petroleum Gases Liquefied	Flammable Gas	27	0.2
3	Hydrochloric Acid Solution	Corrosive Material	13	0.1
3	Fuel Oil (No. 1,2,4,5,6)	Flammable - Combustible Liquid	13	0.1
5	Sodium Hydroxide Solution	Corrosive Material	12	0.1
5	Sulfuric Acid	Corrosive Material	12	0.1
5	Diesel Fuel	Flammable - Combustible Liquid	12	0.1
5	Elevated Temp Material Liquid	Miscellaneous Hazardous Material	12	0.1
9	Flammable Liquids n.o.s.	Flammable - Combustible Liquid	11	0.1
10	Environmentally Hazardous Liquid	Miscellaneous Hazardous Material	10	0.1
11	Adhesives	Flammable - Combustible Liquid	7	0.1
11	Corrosive Liquids n.o.s.	Corrosive Material	7	0.1
11	Phosphoric Acid	Corrosive Material	7	0.1
11	Resin Solution	Flammable - Combustible Liquid	7	0.1
15	Ammonia Anhydrous	Nonflammable Compressed Gas	6	<.1
15	Hazardous Waste Solid n.o.s.	Miscellaneous Hazardous Material	6	<.1
17	Ammonia Solutions 10-35%	Corrosive Material	5	<.1
17	Combustible Liquid n.o.s.	Combustible Liquid	5	<.1
17	Fuel Oil No. 1,2,4,5,6	Combustible Liquid	5	<.1
20	Petroleum Crude Oil	Flammable - Combustible Liquid	4	<.1
20	Fuel Oil	Combustible Liquid	4	<.1
20	Nitric Acid <70%	Corrosive Material	4	<.1
20	Nitrogen Refrigerated Liquid	Nonflammable Compressed Gas	4	<.1
20	Environmentally Hazardous Solid	Miscellaneous Hazardous Material	4	<.1
20	Gasohol	Flammable - Combustible Liquid	4	<.1
20	Denatured Alcohol	Flammable - Combustible Liquid	4	<.1
27	Acetone	Flammable - Combustible Liquid	3	<.1
27	Alcohols n.o.s.	Flammable - Combustible Liquid	3	<.1
27	Ammonium Nitrate <0.2%	Oxidizer	3	<.1
27	Calcium Hypochlorite Hydrated	Oxidizer	3	<.1
27	Coating Solution	Flammable - Combustible Liquid	3	<.1
27	Fuel Aviation Turbine	Flammable - Combustible Liquid	3	<.1
27	Hypochlorite Solution 5-16%	Corrosive Material	3	<.1
27	Methyl Ethyl Ketone	Flammable - Combustible Liquid	3	<.1
27	Potassium Hydroxide Solution	Corrosive Material	3	<.1
27	Radioactive Material n.o.s.	Radioactive Material	3	<.1
27	Sodium Chlorate	Oxidizer	3	<.1
27	Styrene Monomer Inhibited	Flammable - Combustible Liquid	3	<.1
27	Toluene	Flammable - Combustible Liquid	3	<.1
27	Trichloroethylene	Poisonous Materials	3	<.1
27	Methanol	Flammable - Combustible Liquid	3	<.1
27	Corrosive Liq Acidic Organic	Corrosive Material	3	<.1
27	Aerosols Flammable	Flammable Gas	3	<.1
27	Kerosene	Flammable - Combustible Liquid	3	<.1
45	*33 materials tied for this rank*	....	2 each	....
79	*96 materials tied for this rank*	....	1 each	....
			TOTAL	**3.0**

Note: Percentage figures are based on 13,853 incidents reported in 1997.

Serious incidents are defined as those which involve a fatality, major injury, closure of a major transportation artery or facility, evacuation of six or more persons, or a vehicle accident or derailment.

Since some incidents involve multiple hazard classes, double counting occurs in the "Incidents" column. Therefore, no total is shown for this column.

Exhibit 5

Characterization of Hazardous Materials Incident Damages, 1996-1997

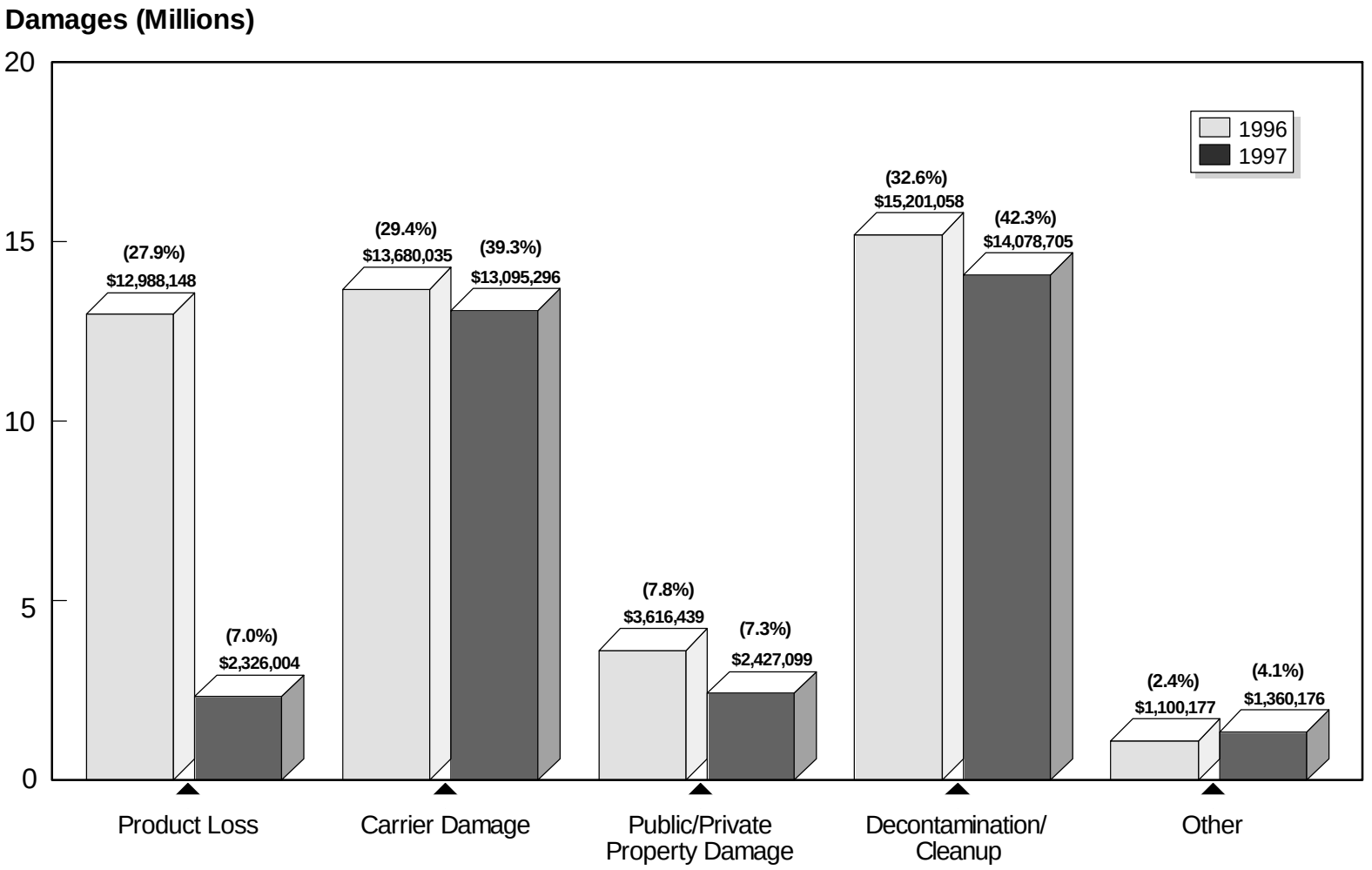


Exhibit 6.1
Hazardous Materials Incidents - 1996
Cause by Mode

Cause	Air	Highway	Rail	Water	Total	Percent of all Incidents*
Human Error	712	9,930	600	4	11,246	80.7
Package Failure	176	1,535	435	1	2,147	15.4
Vehicular Accident/Derailment	0	287	43	0	330	2.4
Other	24	159	30	1	214	1.5
TOTALS	**912**	**11,911**	**1,108**	**6**	**13,937**	...
Percent of Incidents by Mode	6.5	85.5	8.0	<.1	...	...

Exhibit 6.2
Hazardous Materials Incidents - 1997
Cause by Mode

Cause	Air	Highway	Rail	Water	Total	Percent of all Incidents*
Human Error	801	9,828	569	2	11,200	80.4
Package Failure	188	1,509	448	1	2,146	15.4
Vehicular Accident/Derailment	1	253	51	0	305	2.2
Other	13	160	28	1	202	1.4
TOTALS	**1,003**	**11,750**	**1,096**	**4**	**13,853**	...
Percent of Incidents by Mode	7.2	84.3	7.9	<.1	...	...

* All percent figures are rounded to the nearest tenth.

Exhibit 7.1

Hazardous Materials Incidents - 1996
Evacuations - Cause and Consequence by Mode

Mode	Incidents With Evacuations	CAUSE				CONSEQUENCE			
		Human Error	Package Failure	Accident/ Derailment	Other	People Evacuated	Deaths	Major Injuries *	Minor Injuries
Air	28	23	2	0	3	163	0	0	21
Highway	201	148	17	29	7	8,288	1	8	46
Railway	42	10	14	15	3	11,105	2	4	877
Water	0	0	0	0	0	0	0	0	0
TOTALS	**271**	**181**	**33**	**44**	**13**	**19,556**	**3**	**12**	**944**

Exhibit 7.2

Hazardous Materials Incidents - 1997
Evacuations - Cause and Consequence by Mode

Mode	Incidents With Evacuations	CAUSE				CONSEQUENCE			
		Human Error	Package Failure	Accident/ Derailment	Other	People Evacuated	Deaths	Major Injuries *	Minor Injuries
Air	52	47	3	0	2	476	0	0	7
Highway	154	108	20	25	1	6,652	2	26	25
Railway	35	5	7	21	2	17,454	0	0	0
Water	0	0	0	0	0	0	0	0	0
TOTALS	**241**	**160**	**30**	**46**	**5**	**24,582**	**2**	**26**	**32**

* Major injuries are those requiring hospitalization or resulting in loss of time at work.

Exhibit 8.1.1

Hazardous Materials Incidents - 1996
Consequences by Transportation Phase

TRANSPORTATION PHASE	DEATHS		MAJOR INJURIES		MINOR INJURIES		DAMAGES > $50,000		EVACUATIONS		TOTAL INCIDENTS
	Incidents	People	Incidents	People	Incidents	People	Incidents	$	Incidents	People	
En Route/Accident	7	7	12	14	11	850	135	33,011,057	35	9,891	314
En Route/Non-Accident	1	110	2	6	52	83	5	370,810	33	2,413	2,304
Loading	1	1	5	5	22	26	4	311,300	15	1,423	2,617
Unloading	2	2	15	16	79	153	12	1,690,249	37	3,909	7,800
Storage/Terminal	0	0	5	6	10	12	3	259,901	14	1,114	765
TOTALS	**11**	**120**	**39**	**47**	**174**	**1,124**	**159**	**35,643,317**	**134**	**18,750**	**13,800**

Exhibit 8.1.2

Hazardous Materials Incidents - 1997
Consequences by Transportation Phase

TRANSPORTATION PHASE	DEATHS		MAJOR INJURIES		MINOR INJURIES		DAMAGES > $50,000		EVACUATIONS		TOTAL INCIDENTS
	Incidents	People	Incidents	People	Incidents	People	Incidents	$	Incidents	People	
En Route/Accident	9	9	1	1	5	15	107	20,707,290	39	14,963	286
En Route/Non-Accident	0	0	3	3	36	58	8	1,429,626	31	2,913	2,300
Loading	0	0	2	2	16	21	2	166,837	15	754	2,565
Unloading	2	2	13	37	58	71	4	619,375	29	3,515	7,721
Storage/Terminal	0	0	0	0	11	17	2	322,872	12	2,158	790
TOTALS	**11**	**11**	**19**	**43**	**126**	**182**	**123**	**23,246,000**	**126**	**24,303**	**13,662**

* Major injuries are those requiring hospitalization or resulting in loss of time at work.

Exhibit 8.2.1
Hazardous Material Incidents - 1996
Consequences by Bulk and Non-Bulk

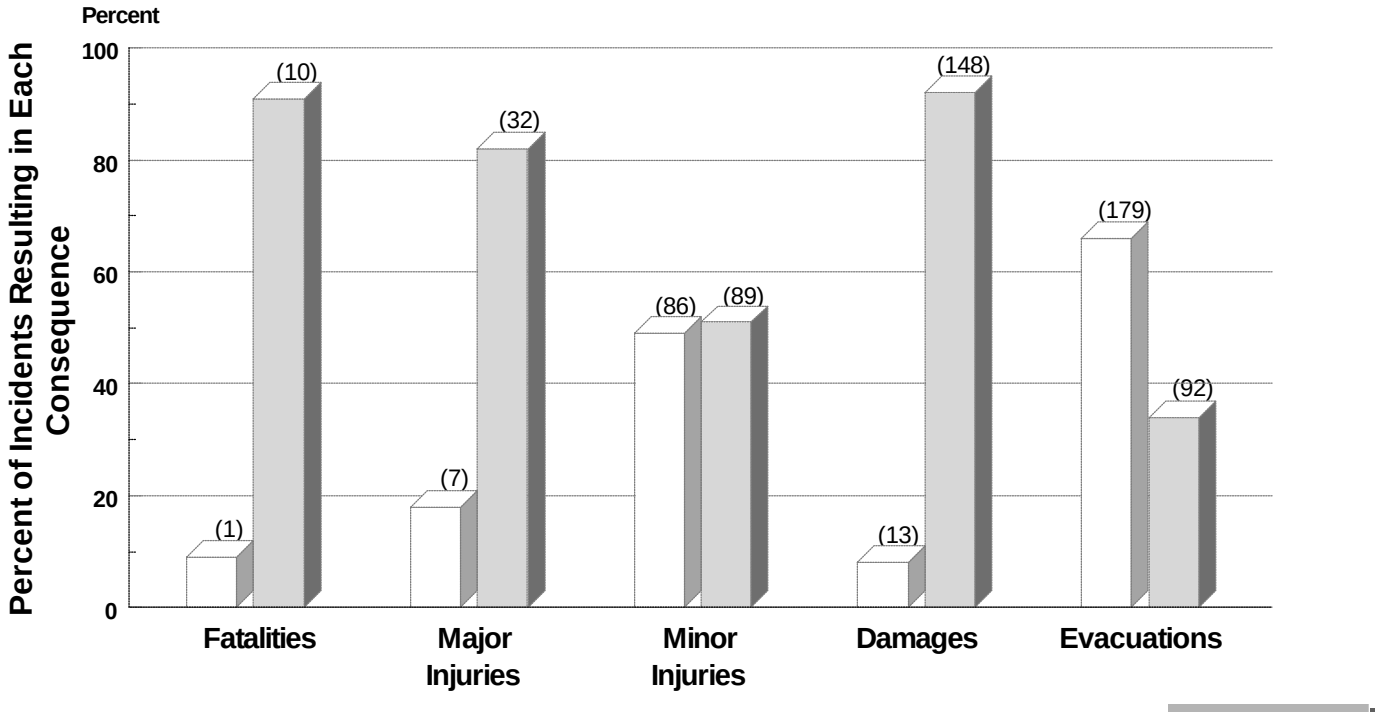
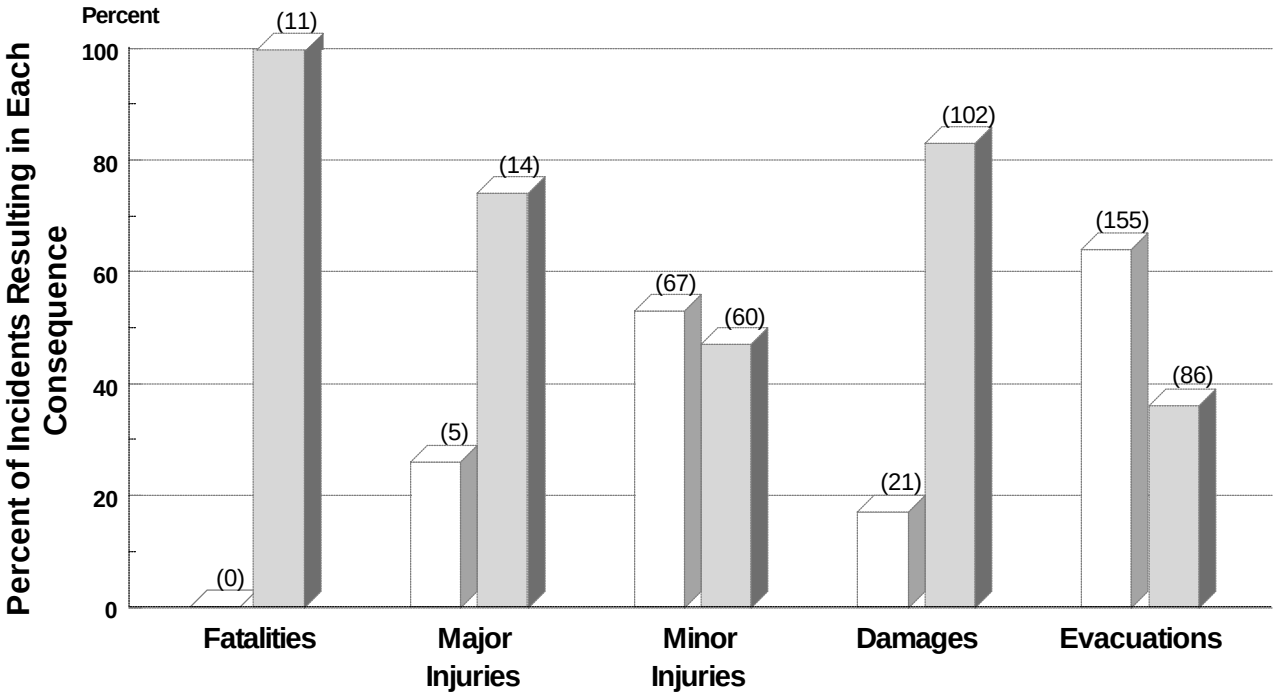


Exhibit 8.2.2
Hazardous Material Incidents - 1997
Consequences by Bulk and Non-Bulk



Note: Bulk packages are defined as those with a maximum capacity greater than 450 L (119 gallons).
Numbers in parentheses show the number of incidents resulting in each consequence.

Exhibit 8.3.1

Hazardous Materials Incidents - 1996
Consequences by Time of Day

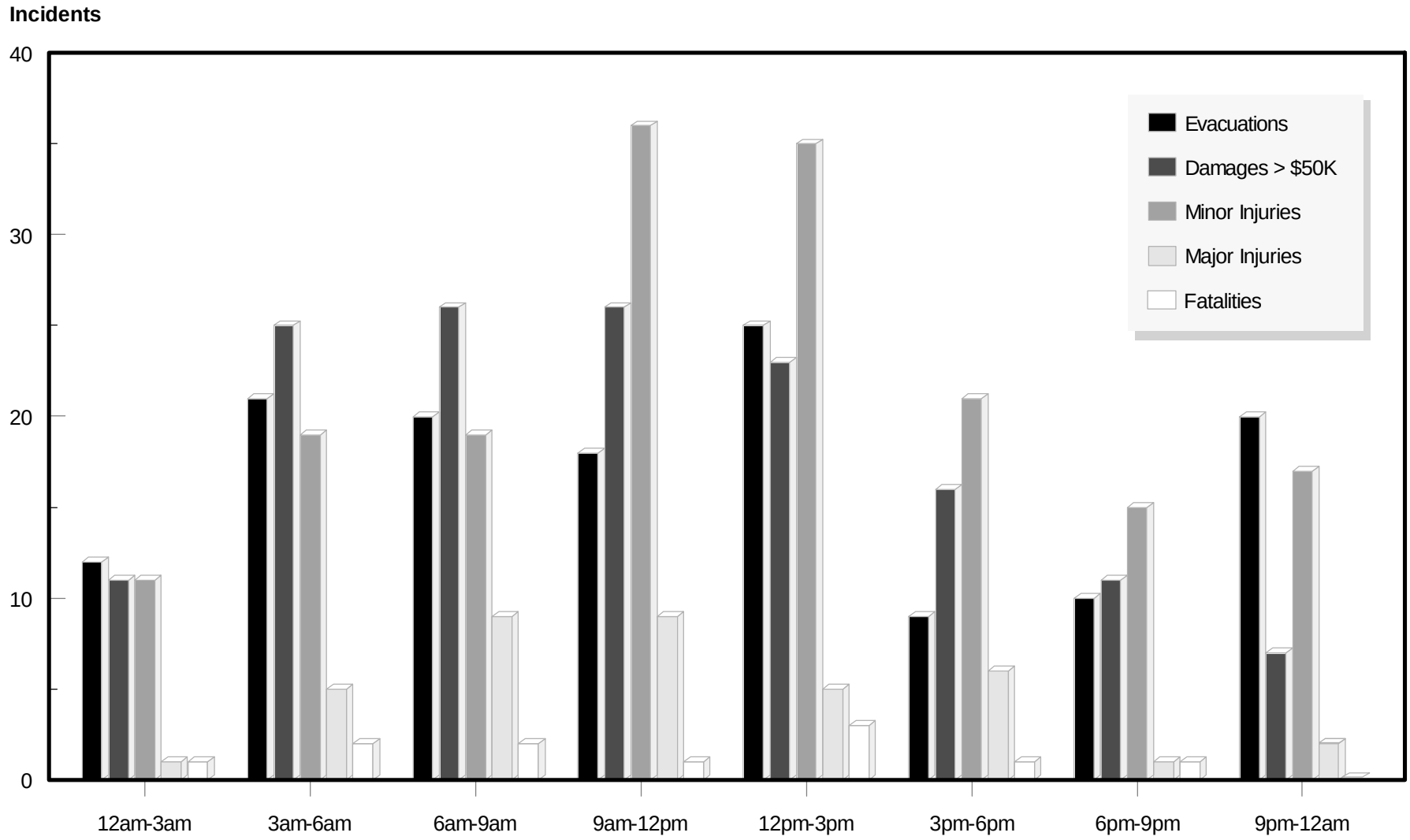


Exhibit 8.3.2

Hazardous Materials Incidents - 1997
Consequences by Time of Day

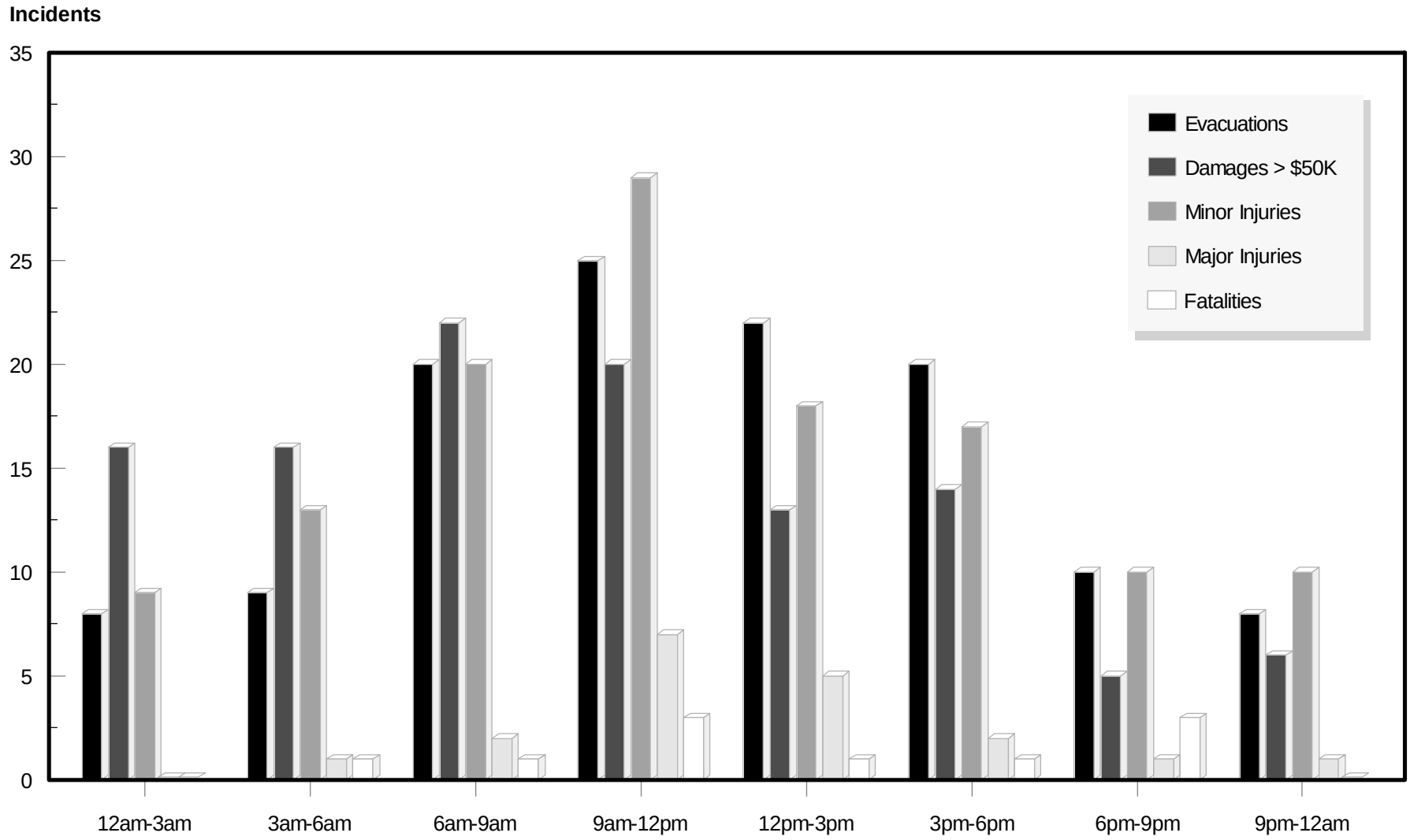
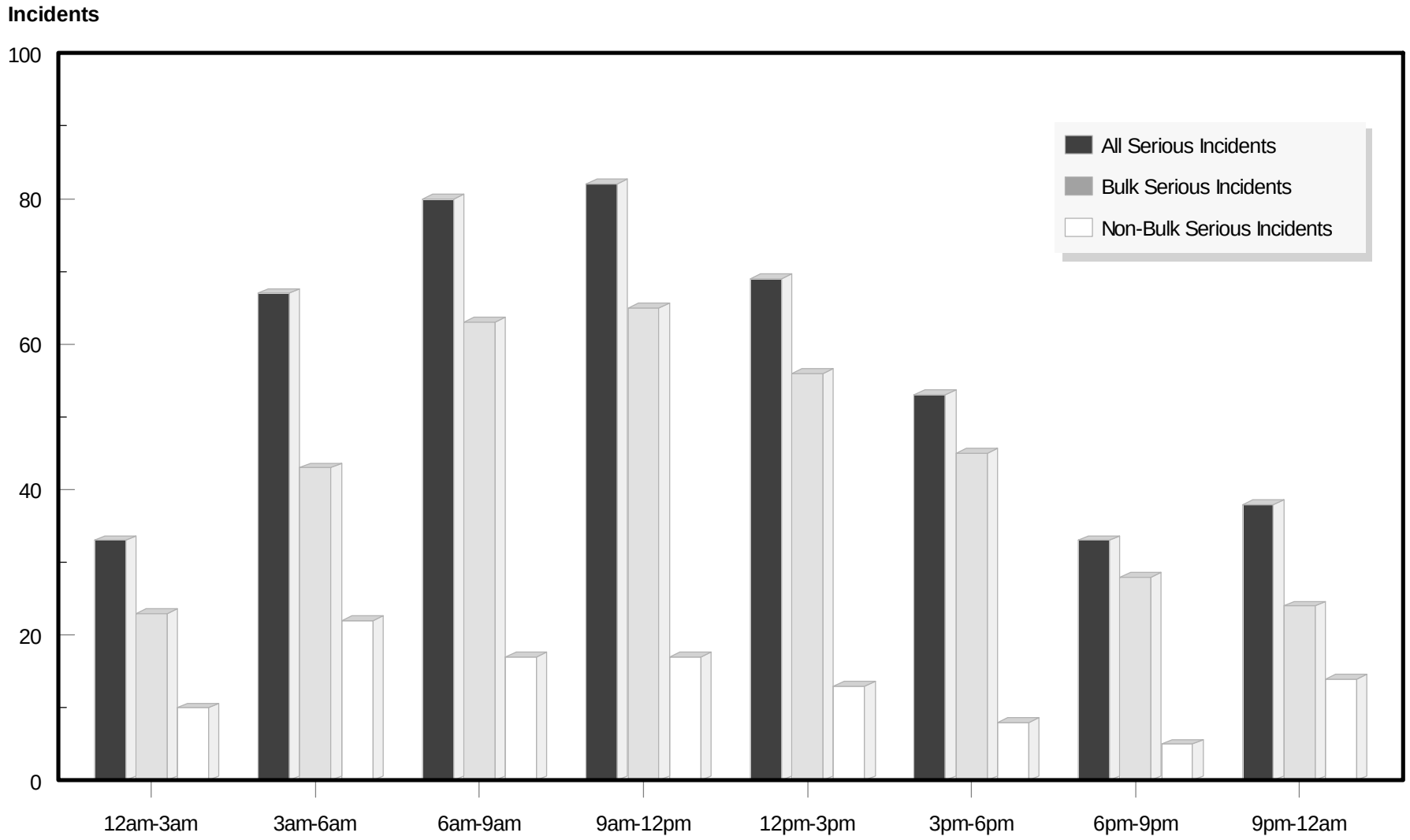


Exhibit 9.1

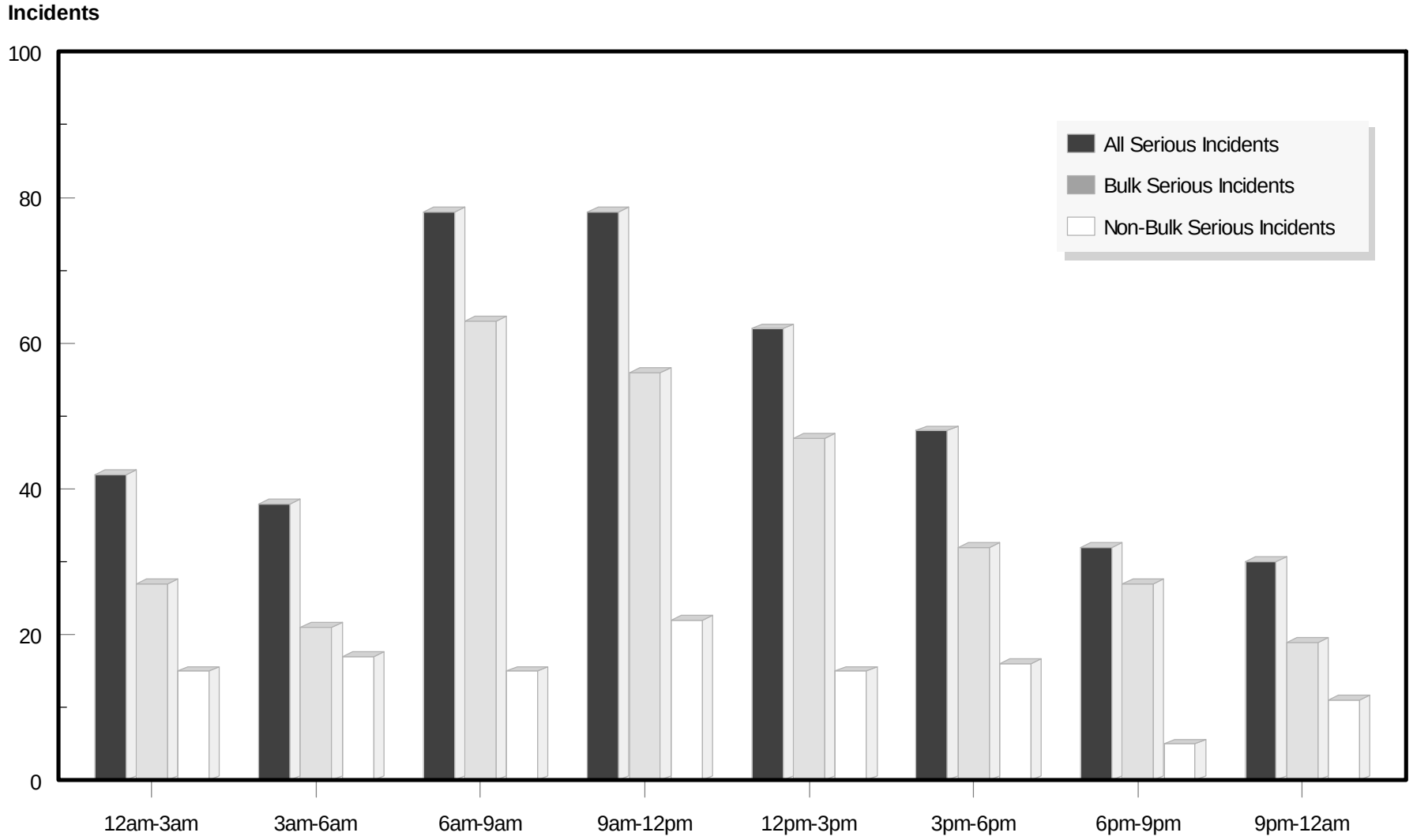
Hazardous Materials Incidents - 1996
Serious Incidents by Time of Day
Bulk and Non-Bulk



Note: Serious incidents are defined as those which involve a fatality, major injury, closure of a major transportation artery or facility, evacuation of six or more persons, or a vehicle accident or derailment.

Exhibit 9.2

Hazardous Materials Incidents - 1997
Serious Incidents by Time of Day
Bulk and Non-Bulk



Note: Serious incidents are defined as those which involve a fatality, major injury, closure of a major transportation artery or facility, evacuation of six or more persons, or a vehicle accident or derailment.

Exhibit 10.1

Hazardous Materials Incidents - 1996
By State

State	Incidents	Deaths	Injuries		$ Damages
			Major	Minor	
Alabama	173	1	1	2	1,039,780
Alaska	24	0	0	1	79,456
Arizona	224	0	0	10	378,715
Arkansas	213	1	1	9	696,508
California	925	1	4	69	2,285,683
Colorado	408	0	0	5	693,099
Connecticut	150	0	0	3	98,349
Delaware	21	0	0	0	45,685
Dist. of Columbia	3	0	0	0	1,455
Florida	351	111	0	13	2,575,970
Georgia	406	0	1	10	861,325
Hawaii	9	0	0	0	483
Idaho	48	0	0	1	292,440
Illinois	1,088	0	2	27	986,111
Indiana	377	0	2	5	1,190,007
Iowa	157	1	0	13	1,873,848
Kansas	279	0	2	4	522,174
Kentucky	366	0	0	5	616,107
Louisiana	206	0	1	4	1,590,668
Maine	37	0	1	3	208,918
Maryland	213	0	0	1	372,328
Massachusetts	321	0	0	1	186,585
Michigan	258	0	0	2	125,370
Minnesota	255	0	3	4	1,325,313
Mississippi	143	0	2	4	1,124,904
Missouri	375	1	2	9	859,626
Montana	36	1	2	790	10,564,935
Nebraska	75	0	1	0	250,951
Nevada	40	0	0	0	193,841
New Hampshire	31	0	1	0	5,864
New Jersey	323	0	1	2	298,508
New Mexico	136	0	1	12	359,945
New York	742	0	2	4	645,256
North Carolina	456	0	0	4	380,654
North Dakota	19	0	0	0	50,334
Ohio	1,199	0	0	10	2,245,314
Oklahoma	113	0	0	0	429,088
Oregon	248	0	2	7	842,618
Pennsylvania	816	1	7	12	1,803,887
Rhode Island	7	0	0	0	73,974
South Carolina	114	0	1	3	308,010
South Dakota	19	0	0	0	1,645
Tennessee	600	0	0	14	1,667,763
Texas	1,004	2	6	47	1,905,131
Utah	263	0	1	1	367,817
Vermont	22	0	0	0	1,984
Virginia	188	0	0	2	1,244,858
Washington	187	0	0	3	239,819
West Virginia	48	0	0	1	211,576
Wisconsin	128	0	0	2	2,053,146
Wyoming	78	0	0	1	358,613
Other *	15	0	0	6	49,419
TOTAL	**13,937**	**120**	**47**	**1,126**	**$46,585,857**

* Incidents by U.S. carriers that occurred in territorial possessions or foreign countries.

Exhibit 10.2

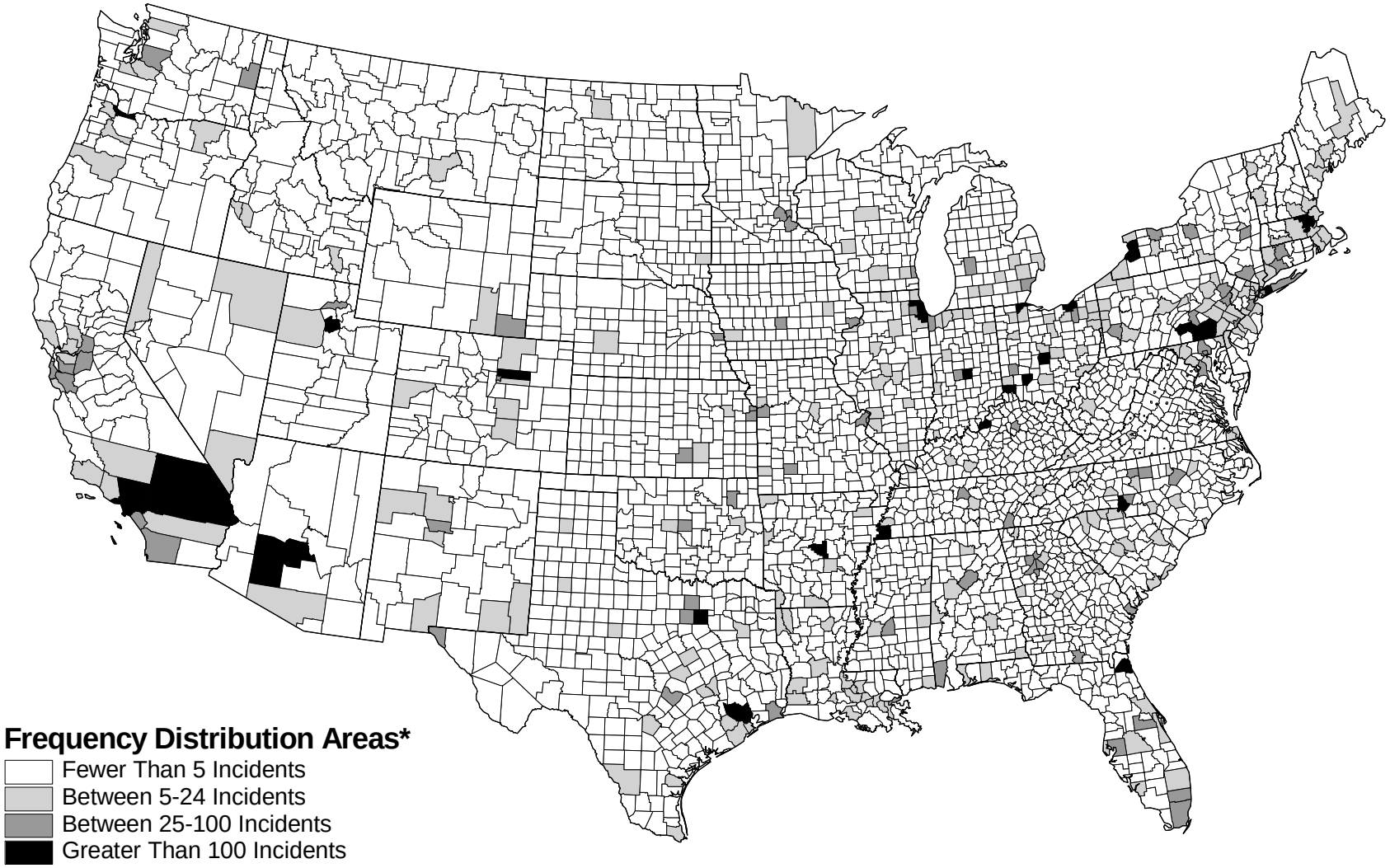
Hazardous Materials Incidents - 1997
By State

State	Incidents	Deaths	Injuries		$ Damages
			Major	Minor	
Alabama	182	0	0	1	616,461
Alaska	33	0	0	0	33,535
Arizona	327	0	0	4	508,321
Arkansas	204	2	1	2	750,681
California	986	1	27	16	1,734,841
Colorado	308	0	0	4	716,225
Connecticut	151	0	0	1	137,429
Delaware	22	0	0	0	4,272
Dist. of Columbia	9	0	0	0	1,576
Florida	391	0	1	11	4,152,021
Georgia	354	0	1	6	954,932
Hawaii	8	0	0	0	2,242
Idaho	28	0	0	1	433,483
Illinois	1,365	0	1	17	1,093,343
Indiana	364	0	1	2	723,122
Iowa	130	0	1	2	1,060,694
Kansas	364	0	0	1	582,237
Kentucky	290	0	0	3	595,838
Louisiana	198	2	0	8	2,533,601
Maine	29	0	0	0	16,404
Maryland	208	1	0	0	169,581
Massachusetts	322	0	0	2	90,615
Michigan	226	0	2	5	462,758
Minnesota	221	1	0	1	685,628
Mississippi	134	0	0	3	307,358
Missouri	404	0	0	1	319,558
Montana	32	0	0	1	156,024
Nebraska	87	0	0	0	105,513
Nevada	54	0	0	5	29,611
New Hampshire	29	0	0	0	35,040
New Jersey	320	0	1	6	1,641,278
New Mexico	176	0	0	6	467,894
New York	556	1	0	7	324,286
North Carolina	403	1	2	10	1,171,425
North Dakota	35	0	0	0	39,404
Ohio	1,074	0	1	7	1,138,529
Oklahoma	130	0	0	1	774,876
Oregon	200	0	0	6	264,790
Pennsylvania	852	0	1	7	1,468,803
Rhode Island	12	0	0	1	247,228
South Carolina	103	0	0	0	283,626
South Dakota	31	0	0	1	226,156
Tennessee	530	0	0	7	482,997
Texas	1,004	1	2	13	1,753,137
Utah	253	0	0	6	768,417
Vermont	22	0	0	0	238,554
Virginia	179	1	1	3	290,946
Washington	248	0	0	1	330,172
West Virginia	57	0	0	1	1,515,214
Wisconsin	135	0	0	1	176,257
Wyoming	51	0	0	0	308,636
Other *	22	0	0	2	361,711
TOTAL	**13,853**	**11**	**43**	**183**	**$33,287,280**

* Incidents by U.S. carriers that occurred in territorial possessions or foreign countries.

Exhibit 11.1.1

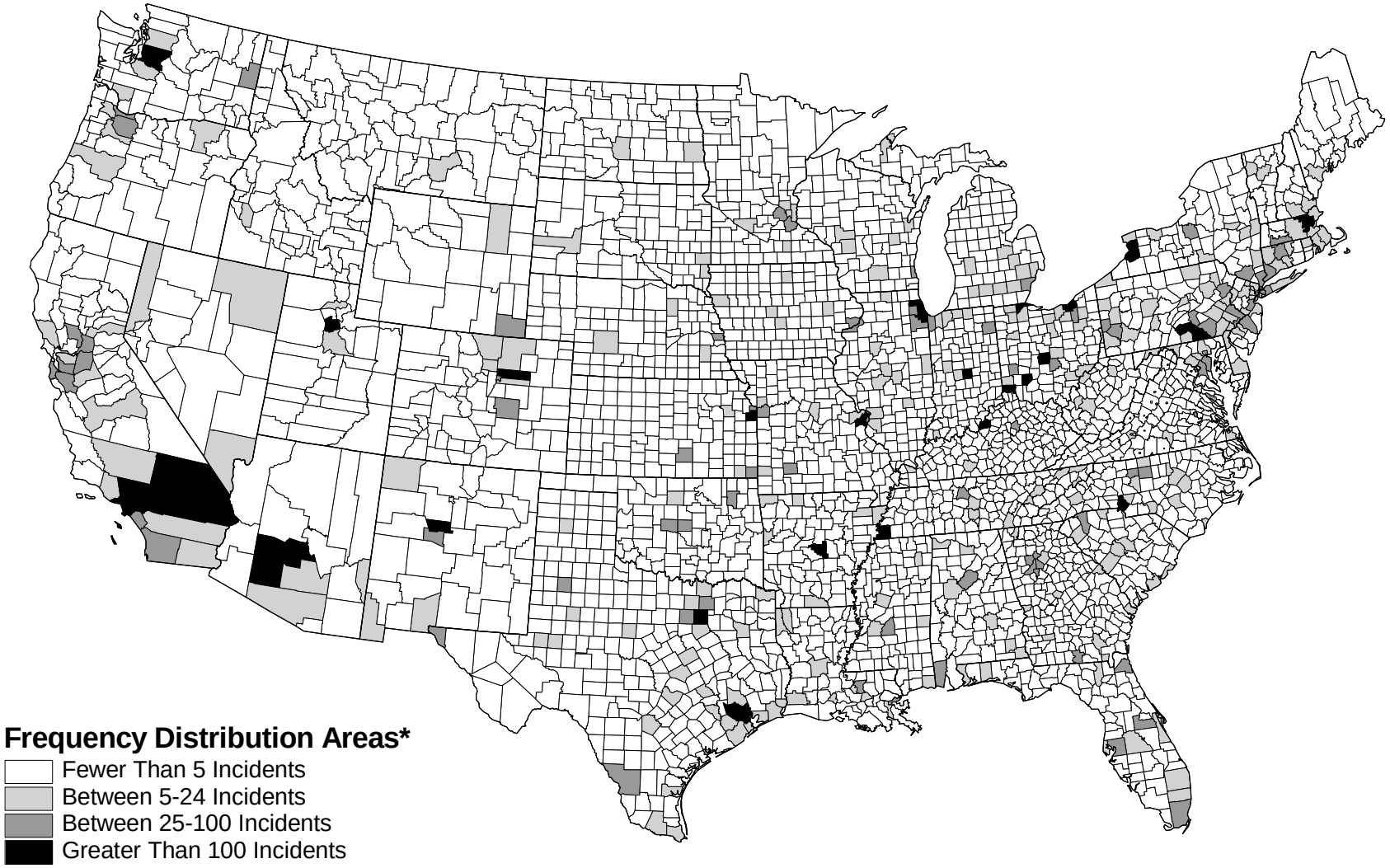
Hazardous Materials Incidents - 1996
By Incident Location



* Areas shown are U.S. Counties.

Exhibit 11.1.2

Hazardous Materials Incidents - 1997
By Incident Location



* Areas shown are U.S. Counties.